

HYBRID COMPRESSOR

ABSTRACT OF THE DISCLOSURE

A hybrid compressor includes a first compression mechanism, which is driven by a first drive source, and a second compression mechanism, which is driven by a second drive source, and a second radial axis of a second housing of the second compression mechanism is offset relative to a first radial axis of a first housing of the first compression mechanism, or a second diameter of the second housing of the second compression mechanism is less than a first diameter of the first housing of the first compression mechanism, or both. When a significant external force is applied to the front end of a vehicle containing the compressor, most of the external force may be absorbed by the first compression mechanism portion of the compressor, thereby reducing or avoiding damage to the second compression mechanism. In particular, when the second drive source is an incorporated electric motor, damage to the electric motor may be reduced or avoided.